

## DELIVERY NOTE

Date 22.05.2012

<b>Customer</b>	<b>Delivery address</b>	<b>Kind of dispatch</b>	<b>DAP</b>	<b>Contract No.</b>	1962-12
Kronospan Ltd. Chirk	Kronospan Ltd. Chirk	delivery date	KW28	Order No.	3620B-12
Wrexham LL14	Wrexham LL14	Installation	yes	Order date	04.05.2012
England	England	Contact	TG	Ordered by	W.Rankenhoehn

### Plant *Entstaubung KT - Presse*

Pos.	quantity	description				Codex
1.01	1	<b>Jet-Impulse-filter</b>				LHS
		type	JDRT-12/05-3375-02			
		Serial No.	F719-12			
		Top coating	RAL 7035			
		weight	6250 kg			
		<b>Technical data</b>				
		gas volume	24.050	m³/h		
		Operating temperature	20	°C		
		Medium	dust			
		filter surface	210	m²		
		Filter ratio	115	m³/m²/h		
		Cleaning pressure	6	bar		
		Air consumption	22	Nm³/h		
		Cleaning interval	Cycle time	60	sec.	
1.01.01	120	Filterbag	PE520LO	3375	length	
1.01.02	120	filter basket with venturi + bottom		3375	length	
1.01.82	1	Compressed-air combination	type	LFR-1/2"-D-MIDI-KA-A-SA		
1.01.80	1	puls-air control	type	MSC		
1.01.03	1	protection for puls-air control + Differential pressure controller				
1.01.04	3	Pneumatic piping ssr25 galv. 3000lg.				
1.01.05	2	Connection galv. for Stapa-pipe				
1.01.06	6	Bracket galv. for Stapa-pipe				
1.01.07	30	lfm. Plexi-tube 4-6mm				
1.01.08	1	Filtertop preassambled acc. parts-list				
1.01.09	10	blow tubes	length	2648 mm	m02 = St 37 (1.0038) galvanized-special material	
1.01.10	2	Soundprotection hood for pilot valves galv.				
1.01.11	1	Clean gas connection	2000x355 Frame-size			
1.01.12	1	Hand-rails acc. parts-list	m02 = St 37 (1.0038) galvanized-spec	2	Units	
1.01.13	1	Ladder acc. parts-list	m02 = St 37 (1.0038) galvanized-spec	8850	length	
1.01.14	1	Filter casing acc. parts-list				
1.01.15	4	Rupture disc with counter frame	920x920 920x5 mm			
1.01.84	4	Rupture disc monitoring	type	RILEX SE-Atex		
1.01.16	1	Dry-extinguishing system acc. parts-list				
1.01.83	1	Level indicator	type	KAX ATEX 24VDC 1-1/2"BSP		
1.01.17	1	Filter hopper acc. parts-list				
1.01.18	1	grounding filter	02			
1.01.85	2	Preparation for temperature sensor		GreCon		
1.01.19	1	Support structure acc. parts-list	4500 mm			
1.01.90	1	1 Set of assembly drawings				

## Filter data-sheet

Customer	Kronospan Ltd. Chirk Wrexham LL14 England	Delivery address	Kronospan Ltd. Chirk Wrexham LL14 England
project	P11	Kind of dispatch	DAP
Plant	Entstaubung KT - Presse	Dispatch avisa	
Installation	yes	Packing	transport-packed

Prepare date	Contract No.	delivery date	Contact LHS	Order No.	Order date	Contact Customer
22.05.2012	1962-12	KW28	TG	3620B-12	04.05.2012	W.Rankenhoehn

## Jet-Impulse-filter

type	JDRT-12/05-3375-02
Serial No.	F719-12

Delivery pos. LHS	1.01	operating mode	suction plant
Delivery pos. customer		Placement	outside

### operating data

gas volume	24.050	m³/h	Medium	dust
Operating temperature	20	°C	Dust content	crude gas
filter surface	210	m²		21 g/m³
Filter ratio	115	m³/m²/h	Clean-gas	10 mg/Nm³
			by law permissible emission	mg/Nm³

### Resistance to pressure and temperature

Resistance to pressure	50 mbar - 3mm; pressure resistance 1,10 bar absolute
Temperature of medium	T1 < up to 80°C (standard)
special	

### Zone classification according to ATEX 95

in filter	zone 20
filter outer environment	zone 22

### Filterbag

loose

Delivery pos.:	1.01.01	Bag quality	PE520LO	diameter	162	Art.-No.	0500-0011-079
quantity	120	length	3375	Antistatic	NO	Certificate	NO
Installation	ring clamp			type	FS160-3375-sr-PE520LO		
Further		Clean gas connection					

### filter basket

loose

	standard	Filter basket divided			
Delivery pos.:	1.01.02	Delivery pos.:		Delivery pos.:	
quantity	120	quantity		quantity	
length	3375	length		length	
	Venturi + bottom	with venturi		Middle-part	with bottom-part
Stiffeners	10				
material	m02 = St 37 (1.0038) galvanized-special material				
Further					

## Compressed-air combination

loose

Delivery pos.:	1.01.82	type	LFR-1/2"-D-MIDI-KA-A-SA	Art.-No.	5002-0500-022
quantity	1	Pressure switch	PEV-1/4-A-SW27	pressure switch 3 bar falling + safety valve 7 bar + condensate drain	
Size	1/2"	Air consumption	22 Nm³/h		
Arrangement	4/1	Cleaning pressure	6 bar		
Further					

## puls-air control

loose

Delivery pos.:	1.01.80	type	MSC	input voltage	230V/50Hz	output voltage	24 VDC
quantity	1					Art.-No.	5003-0100-032
Cycle time	60	Puls-time	120 msek				
Cleaning	continuous cleaning						
Further							

## Differential pressure controller

Delivery pos.:		type		input voltage		Output	
quantity						Art.-No.	
Minimum value	0,3kPA	Maximum value	0,65kPA	Alarm value	1,2kPA		
Further	Integrated in puls-air control						

## protection

loose

Delivery pos.:	1.01.03	quantity	1	surface	m02 = St 37 (1.0038) galvan	Art.-No.	
heated	NO	for	MSC	and		Art.-No.	
Further							

## Pneumatic piping

loose

Delivery pos.:	1.01.04	quantity	3	Stapa-pipe ssr25 verz.	Art.-No.	
Delivery pos.:	1.01.05	quantity	2	Connection	Art.-No.	
Delivery pos.:	1.01.06	quantity	6	Bracket	Art.-No.	
Delivery pos.:	1.01.07	Length-Meter	30	Plexi-tube 4-6mm	Art.-No.	
Further						

## Filtertop

pre-assembled

Delivery pos.:	1.01.08	quantity	1	material	m01 = St 37 (1.0038)-steel
Inspection lid for filtertop	Yes	quantity	4	Pc. filter bag cover	0
Slave box heating	Yes	type	für MSC	Voltage coil	230V/50Hz
aration position high pressure tank for insul	NO	Plate thickness	3 mm	mm	
Further					

## blow tubes

loose

Delivery pos.:	1.01.09	quantity	10	length	2648 mm	surface	m02 = St 37 (1.0038) galvanized-sg
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## Soundprotection hood for pilot valves

loose

Delivery pos.:	1.01.10	quantity	2	surface	m02 = St 37 (1.0038) galvan	Art.-No.	
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## Clean-gas hood

Delivery pos.:		quantity		surface		Art.-No.	
Soundproofed design							

## Clean gas connection

**pre-assembled**

Delivery pos.: 1.01.11 Size 2000x355 Frame pos. Art.-No. \_\_\_\_\_  
 quantity 1 Units \_\_\_\_\_  
 Further **Connection on Pos.2 !!!**

## Handrail

**loose**

Delivery pos.: 1.01.12 surface m02 = St 37 (1.0038) galvanizied-spr Ladder pos. Art.-No. \_\_\_\_\_  
 quantity 1 Units 2 \_\_\_\_\_  
 design bent sheet profiles \_\_\_\_\_  
 Further \_\_\_\_\_

## Ladder

**loose**

Delivery pos.: 1.01.13 surface m02 = St 37 (1.0038) galvan length 8850 Art.-No. \_\_\_\_\_  
 quantity 1 Safety door for ladder NO \_\_\_\_\_  
 Further \_\_\_\_\_

## Filter casing

**loose**

Delivery pos.: 1.01.14 quantity 1 material m01 = St 37 (1.0038)-steel Plate thickness 3 mm  
 Crude gas inlet height A Crudegas frame at position EH A 2 Extension frame for inlet height B 0  
 trussed outside NO Crude-gas cover 0  
 impact plate single material m01 = St 37 (1.0038)-steel Plate thickness 3 mm  
 Further \_\_\_\_\_

## Rupture disc + sensor

**loose**

Delivery pos. RD 1.01.15 quantity 4 Size **920x920 920x586**  
 tested design 1000mmH2O negative pressure, 0,1bar overpressure  
 Delivery pos. sens 1.01.84 quantity 4 type **BRILEX SE-Atex**  
 Further **4x rupture discs - Special construction with platform and ladder!!**

## Dry-extinguishing system

**loose**

Delivery pos.: 1.01.16 Size 2" Connection pos. Art.-No. \_\_\_\_\_  
 quantity 1 C-connection Yes 2/3 \_\_\_\_\_  
 Further \_\_\_\_\_

## Filter dust-collector

Delivery pos.: \_\_\_\_\_ quantity \_\_\_\_\_ Angle \_\_\_\_\_ Art.-No. \_\_\_\_\_  
 design \_\_\_\_\_ Insulation bar \_\_\_\_\_  
 Inspection door \_\_\_\_\_ quantity \_\_\_\_\_ material \_\_\_\_\_ Art.-No. \_\_\_\_\_  
 Plate thickness \_\_\_\_\_ mm \_\_\_\_\_  
 Further \_\_\_\_\_

## Level indicator

**loose**

Delivery pos.: 1.01.83 quantity 1  
 product KAX type KAX ATEX 24VDC 1-1/2"BSP Art.-No. \_\_\_\_\_

## Filter screw feeder

Delivery pos.:	_____	Units	_____	Screw Ø	_____	Gradient	_____
quantity	_____	Size discharge	_____	Ø inner pipe	_____		
drive	_____		Power kW	_____		Volt/Hz	_____
Flat-gear	_____		Rotation speed r.p.m.	_____		Position discharge	_____
Standstill heating	_____		Extension	_____		Cover discharge	_____
Rubber stripper	_____		motor brake	_____			
Further	_____						

## Speed sensor

Delivery pos.:	_____	product	_____	voltage	_____	Art.-No.	_____
quantity	_____	type	_____				
prewired	_____	typ of terminal box	_____	quantity	_____	Delivery pos.:	_____
Further	_____						

## Filter hopper

**pre-assembled**

Delivery pos.:	1.01.17	quantity	1	Size discharge	ZLF030	material	m01 = St 37 (1.0038)-steel
Angle	60°	fening from inside	Yes				
Door with hinge design			Yes	quantity	1	Pos.	3
Further	_____						

## grounding filter

**loose**

Delivery pos.:	1.01.18	quantity	1	Units	02	Art.-No.	_____
Further	_____						

## Temperature sensor

Delivery pos.:	_____	quantity	_____	type	_____	Art.-No.	_____
Pos.	_____						
Further	_____						

## Preparation for temperature sensor

**loose**

Delivery pos.:	1.01.85	quantity	2	type	GreCon	Art.-No.	_____
Pos.	Pos. 2 und 4						
Further	For standard GreCon temperature sensor !						

## Support structure

**loose**

Delivery pos.:	1.01.19	Kind of profile	Wood	surface	m02 = St 37 (1.0038) galvan	Art.-No.	_____
quantity	1	Height mm	4500	Anchorage	Chemical Anchor		
Further	_____						

## Corrosion protection

		Filtertop	Filter casing	Filter dust-collecto	Filter screw	Filter hopper
Sand blasting	SA2.5	NO	NO			NO
Prime coat	1x40my	Yes	Yes			Yes
Top coat	1x40my	RAL 7035	RAL 7035			RAL 7035
Further	_____					

## Remarks

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